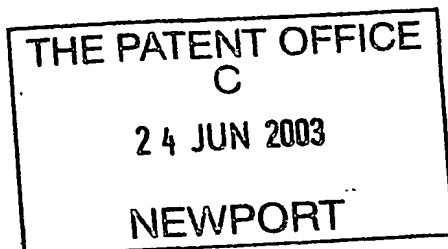




PCT/GB 2003/002443
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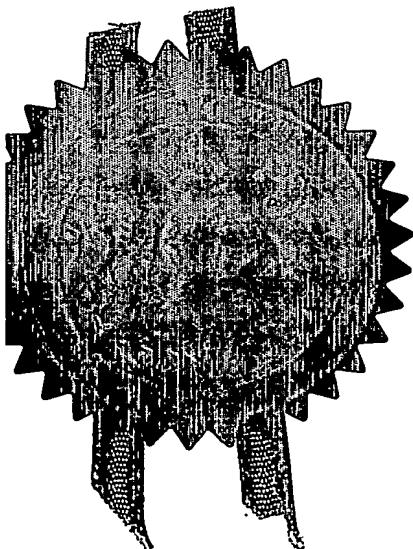
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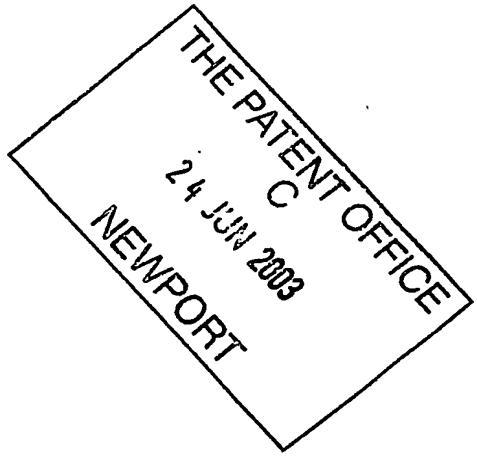
Dated 19 June 2003

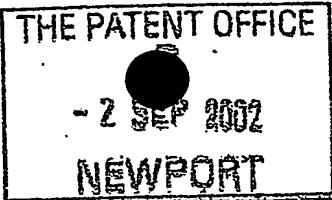
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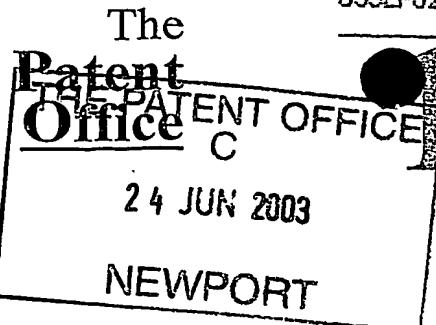
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03SEP02 E745056-1 D02806
P01/7700 0.00-0220276.0

1/77
The Patent Office
Cardiff Road
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Gwent NP9 1RH

1. Your reference	JED1065		
2. Patent application number <i>(The Patent Office will fill in this part)</i>	0220276.0		
3. Full name, address and postcode of the or of each applicant <i>(underline all surnames)</i>	Ian Robert <u>THOMSON</u> 41 Marchioness Way St Neots PE19 8DL		
Patents ADP number <i>(if you know it)</i>	8399453001		
If the applicant is a corporate body, give the country/state of its incorporation			
4. Title of the invention	Improved Garment		
5. Name of your agent <i>(if you have one)</i>	Barker Brettell		
"Address for service" in the United Kingdom to which all correspondence should be sent <i>(including the postcode)</i>	St John's Innovation Centre Cowley Road Cambridge CB4 0WS 07442494004		
Patents ADP number <i>(if you know it)</i>	Country	Priority application number <i>(if you know it)</i>	Date of Filing <i>(day/month/year)</i>
6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and <i>(if you know it)</i> the or each application number	GB	0213245.4	8 June 2002 (08.06.2002)
7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application	Number of earlier application		Date of filing <i>(day/month/year)</i>
8. Is a statement of inventorship and of right to grant of a patent required in support of this request <i>(Answer 'Yes' if:</i>	<p>No</p> <p>a) any applicant named in part 3 is not an inventor, or b) there is an inventor who is not named as an applicant, or c) any named applicant is a corporate body. See note (d))</p>		

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Description 4

Claim(s)

Abstract

Drawing(s) 1 + (Signature)

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Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination
(*Patents Form 9/77*)

Request for substantive examination
(*Patents Form 10/77*)

Any other documents
(please specify)

I/We request the grant of a patent on the basis of this application.

Signature *Barker Brettell*
Barker Brettell

Date
30.08.2002

11. Name and daytime telephone number of person to contact in the United Kingdom

Julie Dunnett

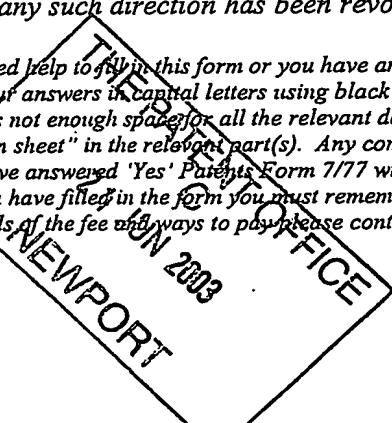
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Improved garmentField of the invention

5 The present invention relates to a garment adapted to deliver a medicament to the wearer. The invention is applicable with particular advantage to garments adapted for the delivery of inhalable medicaments including sports clothing, and in particular for clothing for children.

10 There are many different oils and creams available which are impregnated with a vapourising decongestant. Such creams and oils are intended for use on the skin such that the heat of the skin heats up the decongestant to slowly release decongesting vapour which can be inhaled to keep the nasal passages clear.

15

Such oils and creams can in some cases irritate the skin especially the delicate skin of children. Parents often rub such creams into the clothing of the child or impregnate a handkerchief with a decongestant oil. The amount of decongestant is not controlled and it can also ruin the clothes
20 by staining them. In such cases the decongestant can also come into contact with the skin causing the same irritation.

Even professional sportsmen sometimes rub a slow release vapourising decongestant into their shirt. They have found that this can help to keep
25 their head and nasal passages clear while indulging in their sporting activity, especially in cold weather.

Summary of the invention

30 According to the invention a garment includes a pad holder for receiving and holding securely a medicament impregnated pad.

The medicament may be any material which has a curative or alleviating effect, which has to be brought into close proximity to the user to have its effect.

5

The medicament may be a muscle relaxant compound, in which case the pad holder is positioned in a region in close contact with an area of pain of the wearer.

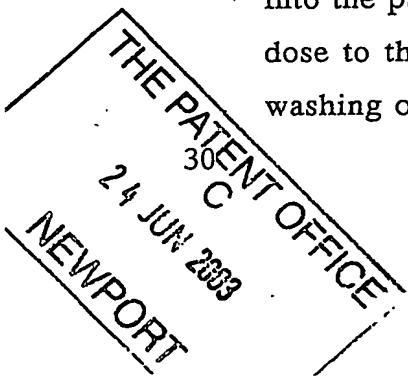
- 10 Alternatively however the medicament is inhalable, such as a vapourised decongestant. In such cases the pad holder is positioned such as to locate the pad in a position such that vapourised decongestant may readily be inhaled by the wearer.
- 15 Typically the garment will be a shirt, sporting tops, pajama tops or all-in-one suits.

- 20 The pad holder is preferably a pocket into which the pad may be slipped and readily removed. It may have a closure to prevent the pad from falling out when the garment is worn, in particular during active sports.

Alternatively the pocket may be an open-topped pocket. Provided that the pad size is only just smaller than the pocket once in position when the garment is worn it will be held securely.

25

The advantage of this system is that the decongestant can be impregnated into the pad at exactly the correct concentration to deliver a recommended dose to the wearer. The pad may be readily removed from the holder for washing of the garment and for replacing after a predetermined time.



The pocket may be outside the garment, in which case the pocket may be decorative, or may include advertising matter.

Preferably the pocket is on the inside of the garment to ensure that the
5 heat of the skin can release the decongestant vapour. Typically the pocket
may be of a net or mesh material which will hold the pad securely but
allow the skin to be in contact with the pad. In the event that the
decongestant used may irritate the skin of the wearer a light cotton
material may be preferred. The pocket may be a woven or non-woven
10 material.

Preferably the pad is of a shape and size to ensure that it is not heavy for
the weight of garment material and that it is not obtrusive for the wearer.
Conveniently the pad may be in a square or rectangular pillow shape with
15 sides between 2cm and 16cm and depth between $\frac{1}{4}$ cm to 1cm.

The choice of suitable vapourising decongestant will be apparent to the
skilled addressee of the specification as will be the choice of appropriate
material for the pad for receiving the decongestant. Typically a suitable
20 material for the pad will be dependent on the decongestant formulation
chosen.

Although the invention is applicable with particular advantage to sports
garments such as football shirts, the invention may also be applied with
25 advantage to children's night clothes - even baby clothes. There is a
perennial problem of how to clear the nasal passages of a baby or young
child and measures which will prevent the build up of mucous in their
nose during the night hours.

30 In one embodiment of the invention, the pocket may be in the form of a
bag having an iron-on surface which can be positioned on a garment as

required by the user and then secured in position by ironing and activating the adhesive in the iron-on surface. However, the pocket could equally be stitched into position.

5 Brief description of the drawings

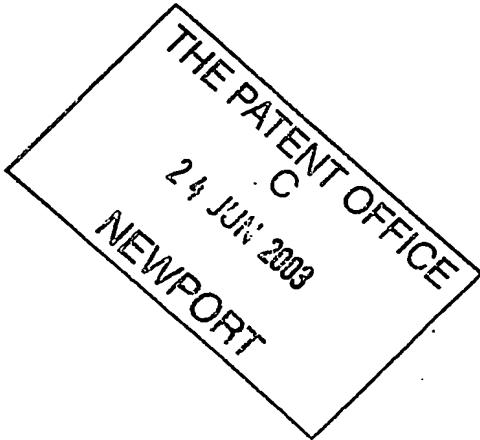
An example of a garment in accordance with the invention will now be described with reference to the accompanying drawing in which:-

10 Description of the preferred embodiment

A garment 1 includes a pad holder 3 for receiving and holding securely a vapourising decongestant impregnated pad 5, the pad holder 3 positioned such as to locate the pad 5 in a position such that vapourised decongestant
15 may readily be inhaled by the wearer of the garment.

In this case the garment is a sports shirt with the pad holder 3 positioned at the centre of the front of the garment just below the neckline to ensure that the vapourised decongestant can readily be inhaled by the wearer of
20 the garment.

The pad holder 3 is in this case in the form of an open-topped pocket 7 of net material. The dimensions of the pocket are 12.5cm by 15.5cm and the dimensions of the pad are 7.5cm by 10cm.



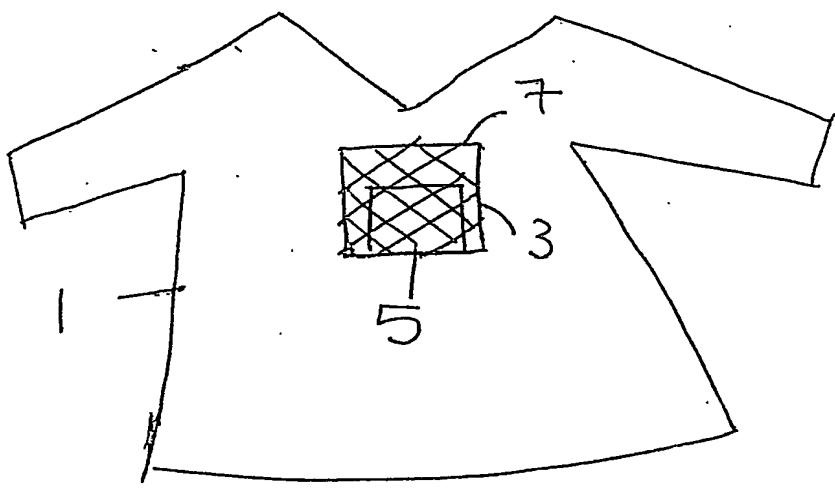
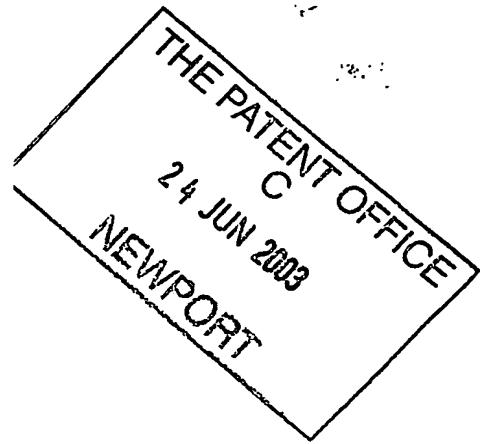


FIGURE 1

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